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 NEWS
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       17 JAN 26
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 NEWS EXPRESS
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     Amylases variants producing reduced immunogenic response, methods of
     making via T-cell epitope identification and mutagenesis, and use as
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     Harding, Fiona A.
Genencor International, Inc., USA
IN
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     Substitution variants of .alpha.-amylase with improved activity in
     alkaline conditions for use in cleaning compositions
     Bessler, Cornelius; Schmitz, Susanne; Schmitt, Jutta; Schmid, Rolf
IN
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     Henkel K.-G.a.A., Germany
     Ger. Offen., 58 pp.
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     137:381698
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     Bacillus .alpha.-amylase variants with altered properties and their uses
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     Svendsen, Allan; Andersen, Carsten; Thisted, Thomas; Von der Osten, Claus
IN
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     Novozymes A/S, Den.
     PCT Int. Appl., 168 pp.
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     Bacillus strains KSM-36 and KSM-38 .alpha.-amylase variants with altered
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     Andersen, Carsten
     Novozymes A/S, Den.
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      Recombinant mutant alkalophilic Bacillus .alpha.-amylase with improved
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      thermostability, recombinant expression, and detergent use
Araki, Hiroyuki; Endo, Keiji; Hagiwara, Hiroshi; Igarashi, Kazuaki;
IN
      Hayashi, Yasuhiro; Ozaki, Katsuya
      Kao Corp., Japan
Jpn. Kokai Tokkyo Koho, 28 pp.
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      135:238614
      Tertiary structure modeling of Bacillus .alpha.-amylases and construction
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     of variants with altered solubility and related enzymic properties
      Andersen, Carsten; Borchert, Torben Vedel; Nielsen, Bjarne Ronfeldt
IN
     Novozymes A/S, Den.
PA
      PCT Int. Appl., 152 pp.
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     Production of oxidatively stable Bacillus .alpha.-amylase recombinant
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     mutants and their use in detergents and starch liquefaction compositions
IN
     Barnett, Christopher C.; Mitchinson, Colin; Power, Scott D.; Requadt,
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     U.S., 57 pp., Cont.-in-part of U.S. Ser. No. 16,395, abandoned.
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     Mutant .alpha.-amylases with improved thermal stability for use in
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     Endo, Keiji; Igarashi, Kazuaki; Hayashi, Yasuhiro; Hagihara, Hiroshi;
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Eur. Pat. Appl., 28 pp.
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     .alpha.-Amylase variants with improved specificity and/or specific
     Andersen, Carsten; Jorgensen, Christel Thea; Bisgard-Frantzen, Henrik;
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      Bacillus Termamyl-like .alpha.-amylase variants with improved pH and
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      Svendsen, Allan; Kjaerulff, Soren; Bisgard-Frantzen, Henrik; Andersen,
IN
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L5
      2000:630815 HCAPLUS
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      133:218513
      Recombinant mutant alkalophilic Bacillus .alpha.-amylase with improved
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      thermostability, recombinant expression, and detergent use
Igarashi, Kazuaki; Endo, Keiji; Hayashi, Yasuhiro; Hagiwara, Hiroshi;
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      Novel .alpha.-amylase mutants of Bacillus amyloliquefaciens with
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      appropriate thermostability and their use for bakery products
      Tamakawa, Shinichiro; Yoshida, Masaharu; Minoda, Masashi; Takahashi,
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      Satoko; Hidaki, Yumiko; Tani, Masakazu; Hashimoto, Tetsushi
      Daiwa Kasei K. K., Japan
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      Jpn. Kokai Tokkyo Koho, 22 pp.
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      Cell-associated degradation affects the yield of secreted engineered and
      heterologous proteins in the Bacillus subtilis expression system
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      Jensen, Christina L.; Stephenson, Keith; Jorgensen, Steen T.; Harwood,
CS
      Bacterial Gene Technology, Novo Nordisk A/S, Bagsvaerd, DK-2880,
      Microbiology (Reading, United Kingdom) (2000), 146(10), 2583-2594
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      Maltogenic _alpha.-amylase variants with altered properties
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      Cherry, Joel Robert; Svendsen, Allan; Andersen, Carsten; Beier, Lars;
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     Mutant Bacillus licheniformis alpha-amylase with improved low pH
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      performance and their use in starch liquefaction and in detergents
      Caldwell, Robert M.; Mitchinson, Colin; Ropp, Traci H.
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     Genencor International, Inc., USA
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      .alpha.-Amylase mutants with improved wash performance
     Borchert, Torben Vedel; Svendsen, Allan; Andersen, Carsten; Nielsen, Bjarne Ronfeld; Nissen, Torben Lauesgaard; Kjaerulff, Soren
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     .alpha.-Amylase mutants with improved thermostability for use as detergent
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     Svendsen, Allan; Borchert, Torben Vedel; Bisgard-Frantzen, Henrik
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     Preparation of Bacillus .alpha.-amylase mutant suitable for preparation of
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     Hatada, Yuji; Ikawa, Kaori; Ito, Susumu
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     PCT Int. Appl., 42 pp.
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     Bacillus .alpha.-amylase variants with improved washing performance
     Bisgard-Frantzen, Henrik; Borchert, Torben Vedel; Svendsen, Allan;
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PA

Genencor International, Inc., USA

WEST Search History

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Search Results - Record(s) 1 through 10 of 29 returned.

1. Document ID: US 20040096952 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 29

File: PGPB

May 20, 2004

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040096952

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040096952 A1

TITLE: Alpha-amylase variant with altered properties

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Svendsen, Allan Horsholm DK
Andersen, Casten Vaerlose DK
Thisted, Thomas Frederikssund DK
Von Der Osten, Claus Lyngby DK

US-CL-CURRENT: 435/202; 435/252.31, 510/226, 510/320

Full Title Citation Front	Review Classification Date Reference	Sequences Attachments Claims KMC Draw. De
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File: PGPB

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PGPUB-DOCUMENT-NUMBER: 20040038368

PGPUB-FILING-TYPE: new

L8: Entry 2 of 29

DOCUMENT-IDENTIFIER: US 20040038368 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Borchert, Torben Vedel Copenhagen O DK
Svendsen, Allan Birkerod DK
Andersen, Carsten Vaerloese DK
Nielsen, Bjarne Virum DK

h eb bgeeef ef be

Nissen, Torben Lauesgaard

Frederiksberg

DK

Kjaerulff, Soren

Vanlose

DK

US-CL-CURRENT: <u>435/202</u>

Full Title Citation Front	Review Classification Date	Reference Sequences	Attachments Claims	KMC Draw. De
-	-			

3. Document ID: US 20030211958 A1

L8: Entry 3 of 29

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030211958

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030211958 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Birkerod DK Svendsen, Allan Borchert, Torben Vedel Copenhagen DK Bisgard-Frantzen, Henrik Bagsvaerd DK Outtrup, Helle Ballerup DK Nielsen, Bjarne Ronfeldt Virum DK Nielsen, Vibeke Skovgaard Bagsvaerd DK Hedegaard, Lisbeth Skodsborg DK

US-CL-CURRENT: 510/226; 435/202, 435/320.1, 435/325, 435/69.1, 510/320, 536/23.2

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Full Title Citation Front	Review Classification	Date Reference	Sequences Attachments	: Claims KudC Draw De

4. Document ID: US 20030129718 A1

L8: Entry 4 of 29

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129718

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030129718 A1

TITLE: Amylase variants

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Andersen, Carsten Vaerlose DK Borchert, Torben Vedel Birkerod DK

h eb b g ee ef ef b

Page 3 of 5

Record List Display

Nielsen, Bjarne Ronfeldt

Virum

DK

US-CL-CURRENT: 435/183; 510/392

Full Title Citation Fron	t Review Classification D	ate Reference Sequences	'Attachments Claims	IOMC Draw. De
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5. Document ID: US 20030044954 A1

L8: Entry 5 of 29

File: PGPB

Mar 6, 2003

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20030044954

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044954 A1

TITLE: Alpha-amylase variants

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Andersen, Carsten Vaerlose DK Kobenhavn O DK Jorgensen, Christel Thea Bisgard-Frantzen, Henrik Bagsvaerd DK DK Svendsen, Allan Birkerod DK Kjaerulff, Soren Vanlose

US-CL-CURRENT: 435/202; 435/320.1, 435/325, 435/69.1, 536/23.2

Fuil	Title	Citation Front	Review Classification	Date	Reference	Sequences	Attachments	Claims	KARAC	Drawn De
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	6.	Document ID:	US 2002015557	4 A 1						

File: PGPB

PGPUB-DOCUMENT-NUMBER: 20020155574

PGPUB-FILING-TYPE: new

L8: Entry 6 of 29

DOCUMENT-IDENTIFIER: US 20020155574 A1

TITLE: Alpha-amylase mutants with altered properties

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

STATE COUNTRY RULE-47 NAME CITY DK Thisted, Thomas Rungsted Kyst Vanlose DK Kjaerulff, Soren DK Andersen, Carsten Vaerloese Fuglsang, Claus Crone Niva DK

US-CL-CURRENT: 435/202; 435/203, 435/320.1, 435/325, 435/69.1

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Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

7. Document ID: US 20020068352 A1

L8: Entry 7 of 29

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020068352

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020068352 A1

TITLE: Alpha-amylase variants with altered 1, 6-activity

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Svendsen, Allan Horsholm DK Jorgensen, Christel Thea Kobenhavn O DK Nielsen, Bjarne Ronfeldt Virum DK

US-CL-CURRENT: 435/202; 435/183, 435/195, 435/69.1, 510/392, 510/393

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

8. Document ID: US 20010039253 A1

L8: Entry 8 of 29 File: -PGPB

Nov 8, 2001

PGPUB-DOCUMENT-NUMBER: 20010039253

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010039253 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: November 8, 2001

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Borchert, Torben Vedel Copenhagen O DΚ Svendsen, Allan Birkerod DK Andersen, Carsten Vaerloese DK DK Nielsen, Bjarne Virum Nissen, Torben Lauesgaard Frederiksberg C DK Kjarulff, Soren Vanlose DK

US-CL-CURRENT: 510/392; 510/305, 510/306

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

h eb bgeeef ef b

9. Document ID: US 6528298 B1

L8: Entry 9 of 29

File: USPT

Mar 4, 2003

US-PAT-NO: 6528298

DOCUMENT-IDENTIFIER: US 6528298 B1

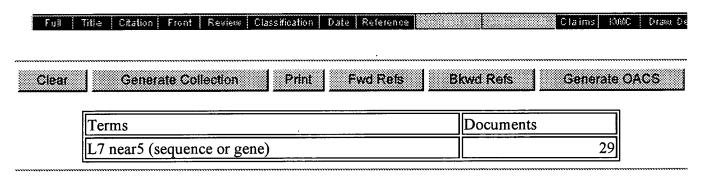
TITLE: .alpha.-amylase mutants

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Full	Tit	e Unation	Fight	Review	Classification	Date	Reference		· · · · · · · · · · · · · · · · · · ·		🥷 ្ត ទេ ប្រោ	5) 1	CORE	Drav	6. U.S
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US-PAT-NO: 6428981

DOCUMENT-IDENTIFIER: US 6428981 B1

TITLE: Bacillus protein production cell



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Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 11 through 20 of 29 returned.

11. Document ID: US 6410295 B1

Using default format because multiple data bases are involved.

L8: Entry 11 of 29

File: USPT

Jun 25, 2002

US-PAT-NO: 6410295

DOCUMENT-IDENTIFIER: US 6410295 B1

TITLE: Alpha-amylase variants

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Andersen; Carsten Vaerl.o slashed.se DK K .o slashed.benhavn .O J.o slashed.rgensen; DK Christel Thea slashed. Bisg.ang.rd-Frantzen; Henrik Bagsvaerd DK DK Birker.o slashed.d Svendsen; Allan Kjaerulff; S.o slashed.ren Vanl.o slashed.se DK

US-CL-CURRENT: 435/202; 435/183, 435/200, 435/252.3, 435/320.1, 435/440

Full Title Citation Front Review Classification Date Reference Claims NAC Draw De 12. Document ID: US 6361989 B1

File: USPT

US-PAT-NO: 6361989

DOCUMENT-IDENTIFIER: US 6361989 B1

L8: Entry 12 of 29

TITLE: .alpha.-amylase and .alpha.-amylase variants

Full Title Citation Front Review Classification Date Reference

13. Document ID: US 6204232 B1

L8: Entry 13 of 29

File: USPT

Mar 20, 2001

Mar 26, 2002

US-PAT-NO: 6204232

Record List Display

DOCUMENT-IDENTIFIER: US 6204232 B1

TITLE: .alpha.-amlase mutants

Full Title Etation Front Review Classification Date Reference Claims NMC Draw D.

14. Document ID: US 6197565 B1

L8: Entry 14 of 29 File: USPT Mar 6, 2001

US-PAT-NO: 6197565

DOCUMENT-IDENTIFIER: US 6197565 B1

TITLE: .alpha.-Amylase variants

Full Title Citation Front Review Classification Date Reference Claims NAC Draw Co

US-PAT-NO: 6187576

DOCUMENT-IDENTIFIER: US 6187576 B1

TITLE: .alpha.-amylase mutants

Full Title Citation Front Review Classification Date Reference Claims KW/C Draw De Cla

US-PAT-NO: 5830837

DOCUMENT-IDENTIFIER: US 5830837 A

** See image for Certificate of Correction **

TITLE: Amylase variants

Full Title Citation Front Review Classification Date Reference Claims NMC Draw Do

17. Document ID: US 5801043 A

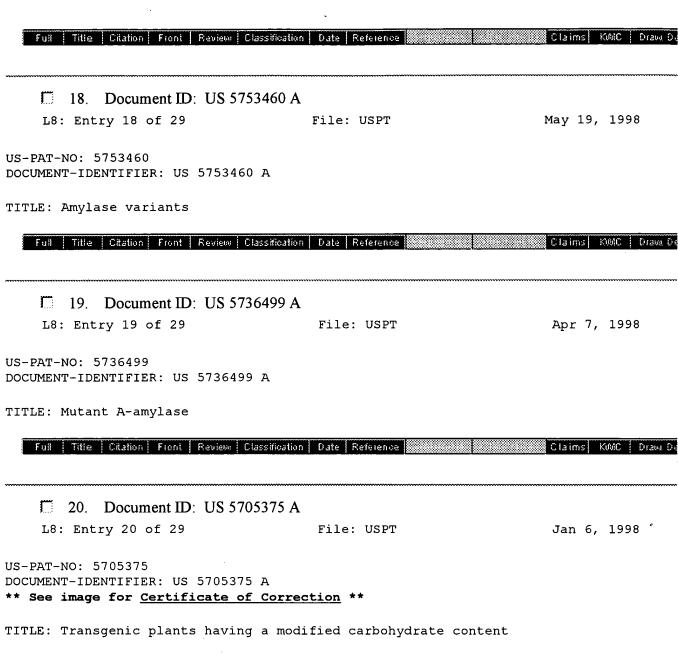
L8: Entry 17 of 29 File: USPT Sep 1, 1998

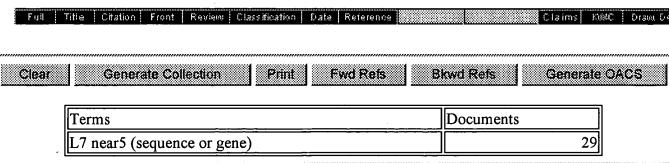
US-PAT-NO: 5801043

DOCUMENT-IDENTIFIER: US 5801043 A

** See image for Certificate of Correction **

TITLE: Amylase variants





Display Format: - Change Format

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Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 21 through 29 of 29 returned.

21. Document ID: US 5705362 A

Using default format because multiple data bases are involved.

L8: Entry 21 of 29

File: USPT

Jan 6, 1998

US-PAT-NO: 5705362

DOCUMENT-IDENTIFIER: US 5705362 A

TITLE: Modified signal sequences

DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bonekamp; AlfonsusJohannes Delft NL Van Tilborg; Marcellis Wilhelmus Elisabeth Maria Leiden NL

US-CL-CURRENT: $\underline{435}/\underline{69.8}$; $\underline{435}/\underline{252.3}$, $\underline{435}/\underline{252.31}$, $\underline{435}/\underline{69.1}$, $\underline{530}/\underline{350}$, $\underline{530}/\underline{351}$,

<u>536/23.1</u>, <u>536/23.2</u>, <u>536/23.4</u>, <u>536/23.5</u>, <u>536/23.7</u>

Full Title Citation Front Review Classification Date Reference Claims RWC Draw De Claims RWC De Claims RWC Draw De Claims RWC D

US-PAT-NO: 5698415

DOCUMENT-IDENTIFIER: US 5698415 A

** See image for Certificate of Correction **

TITLE: Bacillus promoter derived from a variant of a bacillus licheniformis X-amylase promoter

Full Title Citation Front Review Classification Date Reference

23. Document ID: US 5470725 A

L8: Entry 23 of 29 File: USPT

Nov 28, 1995

US-PAT-NO: 5470725

DOCUMENT-IDENTIFIER: US 5470725 A

TITLE: Thermostable (1,3-1,4)-.beta.-glucanase

24. Document ID: US 5084383 A

L8: Entry 24 of 29

File: USPT

Full Title Citation Front Review Classification Date Reference Claims KWC Draw De

Jan 28, 1992

US-PAT-NO: 5084383

DOCUMENT-IDENTIFIER: US 5084383 A

** See image for Certificate of Correction **

TITLE: Bacillus subtilis strain whose extracellular protease activities are reduced, method for obtaining the strain and method for secreting proteins by using the strain

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Date Claims Claims KMC Date Claims Claims

US-PAT-NO: 5015574

DOCUMENT-IDENTIFIER: US 5015574 A

** See image for Certificate of Correction **

TITLE: DNA sequence involved in gene expression and protein secretion, expressionsecretion vector including the DNA sequence and the method of producing proteins by using the expression-secretion vector

Full Title Citation Front Review Classification Date Reference Claims KMAC Draw Do

To 26. Document ID: EP 867504 A1

L8: Entry 26 of 29 File: EPAB Sep 30, 1998

PUB-NO: EP000867504A1

DOCUMENT-IDENTIFIER: EP 867504 A1 TITLE: Oxidation-stable alpha-amylase

PUB-NO: FR002676456A1

DOCUMENT-IDENTIFIER: FR 2676456 A1

TITLE: Thermostable variants of Bacillus licheniformis alpha -amylase, process for

preparing them and their use

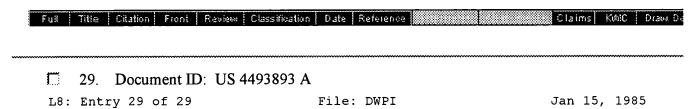
Full Title Citation Front	Review Classification Date Reference	Claims KMC Draw De
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28. Document ID		
L8: Entry 28 of 29	File: EPAB	Jan 31, 1992

PUB-NO: FR002665178A1

DOCUMENT-IDENTIFIER: FR 2665178 A1

TITLE: Heat-stable variants of the alpha-amylase of Bacillus licheniformis, process

for their preparation and their use



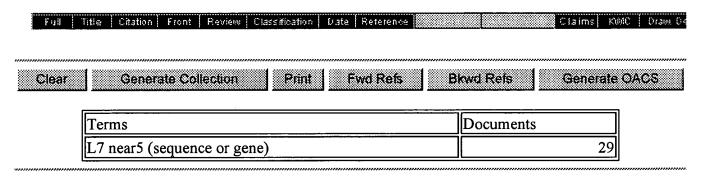
DERWENT-ACC-NO: 1985-031678

DERWENT-WEEK: 198505

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TITLE: Chimeric plasmid(s) contg. thermostable alpha-amylase gene - derived from

Bacillus stearothermophilus



Display Format: - Change Format

Previous Page Next Page Go to Doc#

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 10 of 11 returned.

1. Document ID: US 20040265959 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 11

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040265959

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040265959 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Hiroyuki	Tochigi		JP	
Endo, Keiji	Tochigi		JP	
Hagihara, Hiroshi	Tochigi		JP	
Igarashi, Kazuaki	Tochigi	;	JP	
Hayashi, Yasuhiro	Tochigi		JP	
Ozaki, Katsuya	Tochigi		JP	

US-CL-CURRENT: $\underline{435}/\underline{69.1}$; $\underline{435}/\underline{204}$, $\underline{435}/\underline{252.3}$, $\underline{435}/\underline{320.1}$, $\underline{510}/\underline{320}$, $\underline{536}/\underline{23.2}$

Fuil	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Отаыл Ок
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	2. I	Docume	nt ID:	US 200	040248279	A1						
L13:	Entry	, 2 of	11				File:	PGPB		Dec	9,	2004

PGPUB-DOCUMENT-NUMBER: 20040248279

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040248279 A1

TITLE: Host microorganisms

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawada, Kazuhisa Haga-gun JP <u>Endo,</u> Keiji Haga-gun JP

h e b b g e e e f e f b e

Ozawa, Tadahiro Haga-gun JP Tohata, Masatoshi Haga-gun JP Ozaki, Katsuya Haga-gun JP

US-CL-CURRENT: 435/252.31; 424/200.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	1000C Draw De

3. Document ID: US 20040002431 A1

L13: Entry 3 of 11 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002431

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002431 A1

TITLE: Alkaline cellulase variants

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

COUNTRY RULE-47 NAME CITY STATE Hakamada, Yoshihiro JΡ Haga-gun JP Sawada, Kazuhisa Haga-gun JΡ Endo, Keiji Haga-gun JΡ Kodama, Hiroshi Haga-gun Wada, Yasunao Wakayama-shi JΡ JΡ Shikata, Shitsu Wakayama-shi Kobayashi, Tohru Haga-gun JP

US-CL-CURRENT: 510/226; 435/209, 435/252.3, 435/320.1, 435/69.1, 510/320, 536/23.2

Full Title Citation	Front Review	Classification	Date Reference	Sequences	Attachments	Claims	KMC	Drawt De
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4. Document ID: US 20020123124 A1

L13: Entry 4 of 11 File: PGPB Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123124

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123124 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Araki, Hiroyuki Haga-gun JP

h eb bgeeef eef be

<u>Endo,</u> Keiji	Haga-gun	JP
Hagihara, Hiroshi	Haga-gun	JP
Igarashi, Kazuaki	Haga-gun	JP
Hayashi, Yasuhiro	Haga-gun	JP
Ozaki, Katsuya	Haga-gun	JP

US-CL-CURRENT: $\underline{435/202}$; $\underline{435/320.1}$, $\underline{435/325}$, $\underline{435/69.1}$, $\underline{536/23.2}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims NMC Draw De .

5. Document ID: US 6743616 B2
L13: Entry 5 of 11 File: USPT Jun 1, 2004

US-PAT-NO: 6743616

DOCUMENT-IDENTIFIER: US 6743616 B2

** See image for Certificate of Correction **

TITLE: Highly productive alpha-amylases

Full Title Citation Front Review Cla	assification Date Reference	Claims KooC Draw Da

6. Document ID: JP 20021	12792 A	
L13: Entry 6 of 11	File: JPAB	Apr 16, 2002

PUB-NO: JP02002112792A

DOCUMENT-IDENTIFIER: JP 2002112792 A TITLE: HIGHLY PRODUCTIVE $\alpha-\Delta MYL\Delta SE$

	JP 2001054392 A		Feb 27, 2001	

PUB-NO: JP02001054392A

DOCUMENT-IDENTIFIER: JP 2001054392 A

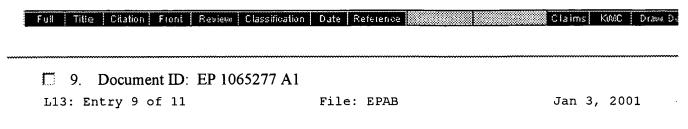
TITLE: $\underline{MUTANT} \alpha - \underline{AMYLASE}$

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Full Title Citation Front Review	Classification Date Reference	Claims KWC Draw De
8. Document ID: JP 2000	0245466 A	
L13: Entry 8 of 11	File: JPAB	Sep 12, 2000

PUB-NO: JP02000245466A

DOCUMENT-IDENTIFIER: JP 2000245466 A

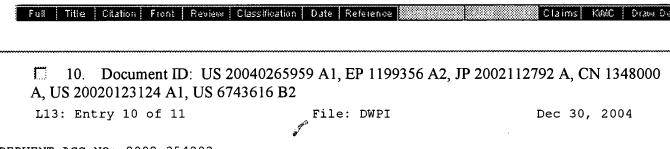
TITLE: MUTANT ALPHA-AMYLASE



PUB-NO: EP001065277A1

DOCUMENT-IDENTIFIER: EP 1065277 A1

TITLE: Mutant alpha-amylases

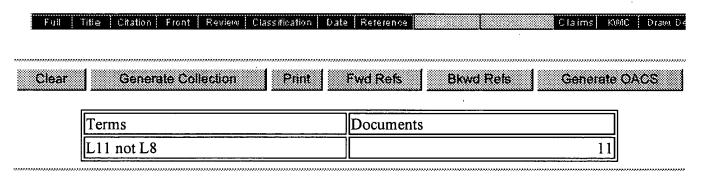


DERWENT-ACC-NO: 2002-354203

DERWENT-WEEK: 200503

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TITLE: New <u>mutant</u> alpha<u>-amylase</u>, useful in detergent compositions, comprises increased productivity when prepared recombinantly and better resistance to heat



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Search Results - Record(s) 11 through 11 of 11 returned.

11. Document ID: EP 1065277 A1, JP 2001054392 A, CN 1277258 A

Using default format because multiple data bases are involved.

L13: Entry 11 of 11

File: DWPI

Jan 3, 2001

DERWENT-ACC-NO: 2001-073344

DERWENT-WEEK: 200176

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TITLE: A gene encoding a mutant alpha-amylase obtained by making replacement or

deletions of amino acid residues in a characteristic sequence

INVENTOR: ENDO, K; HAGIHARA, H ; HAYASHI, Y ; IGARASHI, K ; OZAKI, K

PRIORITY-DATA: 1999JP-0163569 (June 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1065277 A1	January 3, 2001	E	028	C12N015/56
JP 2001054392 A	February 27, 2001		024	C12N015/09
CN 1277258 A	December 20, 2000		000	C12N009/28

INT-CL (IPC): C11 D 3/386; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 9/28; C12 N 15/09; C12 N 15/56; C12 N 15/63; C12 N 1/21; C12 R 1:125

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